

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1 **Claim 1 (previously presented):** A heating apparatus

2 comprising:

3 an infrared ray lamp including a heating element which
4 has a substantially plate shape, a cross-section of which
5 is a rectangular shape, and which is hermetically sealed in
6 a glass tube, and

7 a reflection plate which is disposed so as to keep a
8 predetermined distance from outside of said glass tube of
9 said infrared ray lamp,

10 wherein said heating element has a width which is
11 larger than a thickness thereof by five times or more, and
12 is formed of a carbon-based substance consisting at least
13 of crystallized carbon, a resistance value adjustment
14 substance and amorphous carbon,

15 wherein said reflection plate has at least a similar
16 length as that of the infrared ray emitting portion of said
17 heating element, is disposed in parallel with the center
18 line in the longitudinal direction of said heating element,
19 and has a substantially arcuate shape using the center line
20 of said heating element as a center thereof, and

21 wherein a reflection face of said reflection plate
22 that opposes said heating element is disposed so as to be

23 opposed to one of the wider side portions of said heating
24 element.

Claim 2 (canceled)

1 **Claim 3 (previously presented):** A heating apparatus
2 comprising:

3 an infrared ray lamp including a heating element which
4 has a substantially plate shape, of which cross-section is
5 a rectangular shape, and which is hermetically sealed in a
6 glass tube, and

7 a reflection plate which is disposed so as to keep a
8 predetermined distance from outside of said glass tube of
9 said infrared ray lamp,

10 wherein said heating element has a width which is
11 larger than a thickness thereof by five times or more, and
12 is formed of a carbon-based substance consisting at least
13 of crystallized carbon, a resistance value adjustment
14 substance and amorphous carbon,

15 wherein said reflection plate has at least a similar
16 length as that of the infrared ray emitting portion of said
17 heating element, is disposed in parallel with the center
18 line in the longitudinal direction of said heating element,
19 and has a substantially arcuate shape using the center line
20 of said heating element as a center thereof, and

21 wherein the reflection face of said reflection plate
22 that opposes said heating element is disposed so as to be
23 opposed to one of the narrower side portions of said
24 heating element.

1 **Claim 4 (currently amended):** A heating apparatus in
2 accordance with claim 1 or 3, wherein said reflection plate
3 having a substantially arcuate shape is disposed so that
4 both ends of said reflection [[pate]]plate in a direction
5 orthogonal to the longitudinal direction thereof is
6 arranged on a plane including the center line of said
7 heating element.

1 **Claim 5 (previously presented):** A heating apparatus in
2 accordance with claim 1 or 3 wherein a cross-section of
3 said reflection plate has a substantially arcuate shape
4 formed of a combination of plural straight lines, such as
5 a part of a polygon.

1 **Claim 6 (previously presented):** A heating apparatus
2 in accordance with claim 1 or 3 wherein said reflection
3 plate is configured so as to reflect radiant heat from said
4 heating element and diffuse the radiant heat to the front
5 of said infrared ray lamp.

Claims 7-38 (canceled)